

401  
59  
69  
70.9**Search Results - Record(s) 1 through 20 of 26 returned.**

- 
- ☐ 1. 6540987. 15 Mar 01; 01 Apr 03. Polyesters based on hydroxy fatty acids and lower hydroxy alkyl acids and uses thereof. Weipert; Paul David, et al. 424/59; 424/489 424/497 424/70.11 424/78.08 424/78.37 514/785 525/400 560/171 560/172 560/176 560/183. A61K007/06 A61K031/765 A61K009/14 C07C229/00 C07C069/66 C07C069/73.
- 
- ☐ 2. 6476024. 04 Mar 02; 05 Nov 02. Pyridazine derivatives and related composition. Suetsugu; Masaru, et al. 514/232.2; 424/59 424/69 424/70.9 512/2 514/844 514/845 514/937 544/82. A61K031/537 A61K007/42.
- 
- ☐ 3. 6395896. 15 Dec 00; 28 May 02. Pyridazine derivatives, manufacturing method and related composition. Suetsugu; Masaru, et al. 544/82; 424/59. C07D413/14.
- 
- ☐ 4. 6387858. 31 Mar 00; 14 May 02. Safe transport gel for treating medical instruments. Shah; Sayed S., et al. 510/161; 510/220 510/221 510/233 510/235 510/403. C11D003/37 C11D003/48.
- 
- ☐ 5. 6342239. 05 Oct 00; 29 Jan 02. Powder composition, a powder dispersion in oil and a cosmetic composition containing said powder composition and a powder dispersion in oil. Tachibana; Kiyomi, et al. 424/401; 424/60 424/64 424/69 424/70.12 424/70.122 424/78.03 514/844 514/846. A61K007/06 A61K007/035 A61K007/48 A61K007/027 A61K009/14.
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- ☐ 6. 6146616. 24 Dec 98; 14 Nov 00. Antioxidant and/or antielastase composition based on lupine oil. Msika; Philippe, et al. 424/59; 424/400 424/401. A61K007/42 A61K007/00.
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- ☐ 7. 6123960. 07 Jul 98; 26 Sep 00. Composition based on lipid vesicles and a cross-linked poly(2-acrylamido-2-methylpropane-sulphonic acid) which is at least 90% neutralized. Favre; Sophie, et al. 424/450; 424/401 428/402.2 514/844. A61K009/127.
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- ☐ 8. 6071525. 24 Aug 98; 06 Jun 00. Whitening cosmetics containing mulberrin. Kim; Jeong-Ha, et al. 424/401; 424/62 424/769 424/779 514/460 514/844. A61K007/00 A61K031/35.
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- ☐ 9. 6042839. 09 Mar 98; 28 Mar 00. Powder compositions. Lahanas; Konstantinos M., et al. 424/401; 424/464 424/465 424/488 424/489 424/490 424/69 424/78.02. A61K006/00 A61K009/14 A61K007/035.
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- ☐ 10. 5872111. 19 May 97; 16 Feb 99. Compositions comprising glycosylamide surfactants. Au; Van, et al. 514/62; 514/42 536/18.7 536/53 536/55.2. A61K031/70.
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- ☐ 11. 5698183. 31 Mar 94; 16 Dec 97. Compositions comprising high loading water-dispersible UVA and/or UVB light-absorbing copolymer. Langer; Matthew Evan, et al. 424/59; 424/60 528/128. A61K007/42 A61K007/44 C08G008/02.
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- ☐ 12. 5560872. 18 May 95; 01 Oct 96. Compositions comprising oxazolidine and tetrahydrooxazine amide surfactants. Rahman; Mohammad A., et al. 510/392; 510/136 510/137 510/151 510/159 510/320 510/321 510/374 510/393 544/97 548/215. C11D001/66 C11D003/28.
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(2)

7803 917

- ☐ 13. 5466396. 19 Nov 93; 14 Nov 95. Isethionate esters of alkyl alkoxy carboxylic acid. Madison; Stephen A., et al. 510/153; 510/159 510/428 510/484 510/495 510/498 510/536 510/537 560/183 560/186. C11D001/28 C11D003/50 C11D003/20.
- ☐ 14. 5389279. 25 Nov 92; 14 Feb 95. Compositions comprising nonionic glycolipid surfactants. Au; Van, et al. 424/70.19; 510/126 510/151 510/158 510/159 510/393 510/423 510/427 510/433 510/470. C11D009/00 C11D009/30 C11D001/18.
- ☐ 15. 5385685. 25 Nov 92; 31 Jan 95. Compositions comprising glyceroglycolipids having an ether linkage as a surfactant or cosurfactant. Humphreys; Robert W., et al. 510/119; 510/137 510/151 510/152 510/320 510/340 510/365 510/437 510/470 514/844 536/17.2 536/4.1. C11D017/00.
- ☐ 16. 5366665. 09 Mar 93; 22 Nov 94. Compositions comprising alkyl sulfooxyalkanoate compounds containing a beneficial reagent component. Cho; Suk H.. 510/152; 424/65 510/127 510/156 510/158 510/159 510/426 510/429 510/495 514/844 554/97 558/32 558/38. C11D001/12.
- ☐ 17. 5358656. 25 Nov 92; 25 Oct 94. Compositions comprising glyceroglycolipids having an amine linkage as a surfactant or cosurfactant. Humphreys; Robert W., et al. 510/433; 510/119 510/151 510/321 510/341 510/350 510/393 510/423 510/470 536/17.2 536/4.1. C11D003/22.
- ☐ 18. 5352387. 25 Nov 92; 04 Oct 94. Alkyl glyceramide surfactants and compositions comprising these surfactants. Rahman; Mohammad A., et al. 510/496; 510/126 510/137 510/155 510/156 510/159 510/341 510/350 510/433 510/502. C11D001/14 C11D003/32 C11D001/83.
- ☐ 19. 5352386. 25 Nov 92; 04 Oct 94. Compositions free of boron comprising N-alkylerythronamides and N-alkylxylonamides as surfactants. Rahman; Mohammad A., et al. 510/423; 424/73 510/158 510/305 510/306 510/321 510/350 510/374 510/393 510/433 510/502 510/535. C11D001/72 C11D003/32.
- ☐ 20. 5260051. 17 Dec 90; 09 Nov 93. Compositions comprising phosphate ester compounds containing a beneficial reagent component. Cho; Suk H.. 424/57; 510/130 510/150 510/469 514/143 514/844 514/846 558/194 558/207 558/208 558/70. A61K007/16 A61K031/66 C07F009/11.

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Terms	Documents
L2 and (skin white\$ or free radical\$ or chelat\$ or scavenger\$ or tyrosinase\$ or inhibitor\$)	26

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L19: Entry 21 of 85

File: USPT

Jun 6, 2000

DOCUMENT-IDENTIFIER: US 6071525 A

TITLE: Whitening cosmetics containing mulberrinAbstract Text (1):

The present invention relates to cosmetic products having a whitening effect, which comprises mulberrin.

Abstract Text (2):

According to the present invention, an aqueous suspension of the Ramulus mori extract, which have been obtained by extracting young branches of plants belonged to Morus genus with water or an organic solvent, is fractionated by organic solvents, isolated and purified to give mulberrin, which is then added to conventional skin-care cosmetics to give whitening cosmetics having an excellent whitening effect.

Brief Summary Text (2):

The present invention relates to cosmetic products having a whitening effect, which contains mulberrin represented below by Formula 1: ##STR1##

Brief Summary Text (5):

In general, there are various reasons for the darkening of skin color, the main reason being ultraviolet rays. When skin is exposed to ultraviolet rays, melanin is synthesized in melanocytes, which is a type of skin cell, and released to darken skin color. In the process of melanin synthesis in melanocytes, tyrosinase reacts on tyrosine, which is a substrate for tyrosinase, in the cell to yield Dopaquinone and it goes through sequential oxidation to give Dopachrome and then 5,6-dihydroxyindole (DHI) and 5,6-dihydroxyindol-2-carboxylic acid (DHICA), the monomers of melanin, which are then polymerized with each other to provide a copolymeric black pigment, melanin. Thus, an understanding of the mechanism of melanin synthesis is very important to the development of whitening agents or cosmetic products having whitening effect. In other words, the interpretation of the melanin-control mechanism may provide a method of preventing color deposition by melanin. In order to prevent darkening of skin color (for example, liver spots, freckles, or the like), it is most simple and general to inhibit a step of the process of generating melanin, and to reduce the production of melanin. Such inhibition can be performed by inhibiting the activity of tyrosinase.

Brief Summary Text (7):

Among these, kojic acid forms a chelate with a copper ion at the active site of tyrosinase to inhibit the enzyme activity. Though it has high activity, it is not appropriate for use in cosmetics because of stability problems in the process of blending in cosmetic products.

Brief Summary Text (9):

Hydroquinone is not desirable in that it has irreversible whitening activity and irritates the skin strongly, so that its use as a cosmetic material has been restricted in the past. Furthermore, hydroquinone has recently been recognized as a carcinogen, so that its use in cosmetic products is now prohibited.

Brief Summary Text (15):

The object of the present invention is to provide whitening cosmetic products having an excellent and superior whitening effect while avoiding problems associated with conventional tyrosinase activity inhibitors, by incorporating mulberrin in conventional skin-care products.

Brief Summary Text (17):

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Database

Query

Time

Comment

S5235

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USPT,JPAB,EPAB,DWPL,TDBD

((SODIUM MAGNESIUM SILICATE OR NAMGSIO3  
)AND COSMETIC ) AND TYROSINASE\$ OR ((SODIUM MAGNESIUM SILICATE  
OR

NAMGSIO3 )AND COSMETIC ) AND FREE OR  
((SODIUM MAGNESIUM SILICATE OR NAMGSIO3 )AND COSMETIC ) AND  
SCAVENGERS\$ OR ((SODIUM MAGNESIUM SILICATE  
OR NAMGSIO3 )AND COSMETIC ) AND CHELATING

2003-06-26 06:42:38

S5234

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USPT,JPAB,EPAB,DWPL,TDBD

((SODIUM MAGNESIUM SILICATE OR NAMGSIO3  
)AND COSMETIC ) AND SKIN WHITENING

2003-06-26 06:41:26

S5233

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USPT,JPAB,EPAB,DWPL,TDBD

(SODIUM MAGNESIUM SILICATE OR NAMGSIO3 )  
AND COSMETIC

2003-06-26 06:40:56

S5232

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USPT,JPAB,EPAB,DWPL,TDBD

SODIUM MAGNESIUM SILICATE OR NAMGSIO3

2003-06-26 06:40:37

S5231

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USPT,JPAB,EPAB,DWPL,TDBD

SODIUM MAGNESIUM SILICATE OR NAMGSIO3

2003-06-26 06:38:57

S5230

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USPT,PGPB,JPAB,EPAB,DWPI,TDBD

((3708396| 4294623| 4429122| 4487198| 4846139| 5141859|

5462864)! [pn] ) and crystalline

2003-06-26 05:58:20

S5229

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USPT,JPAB,EPAB,DWPI,TDBD,PGPB

(3708396| 4294623| 4429122| 4487198| 4846139| 5141859|

5462864)! [pn]

2003-06-26 05:57:26

S5228

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USPT,JPAB,EPAB,DWPI,TDBD

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S5227

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<b>US005747006</b>	<b>6</b>	<b>6</b>	<b>0</b>	<b>1</b>
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## Document Listing

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US005747006	6	1 - 6	1
Total (1)	6	-	-

Mulberrin, which is contained in whitening cosmetic products in accordance with the present invention, can be prepared as follows:

Brief Summary Text (20):

In accordance with the invention, mulberrin prepared as described above can be added to any of the numerous conventional cosmelics, especially skin care cosmetics, such as, without limitation, skin softener (skin lotion), astringent, nutrient emulsion (milk lotion), nutrient cream, massage cream, essence and facial pack. In accordance with this invention, the amount of mulberrin added may preferably range from about 0.00001% to about 5% (w/w), and more preferably from about 0.001% to about 1% (w/w), based on the dry weight of each cosmetic product.

Brief Summary Text (21):

These ranges are, of course, not critical and may range higher or lower, depending upon particular cosmetic application contemplated.

Detailed Description Paragraph Table (8):

COMPONENT CONTENT (% , w/w)	
mulberrin	0.1
glycerin monostearate	2.0
stearyl alcohol	2.2
stearic acid	1.5
wax	1.0
polysorbate 60	1.5
sorbitan stearate	0.6
hydrogenated vegetable oil	1.0
squalane	3.0
mineral oil	5.0
trioctanoin	5.0
dimethicone	1.0
sodium magnesium silicate	0.1
glycerin	5.0
betaine	3.0
triethanol amine	1.0
sodium hyaluronate	4.0
preservatives, fragrance, small quantity pigment	
distilled water residual quantity	Total 100

CLAIMS:

1. A cosmetic product having a skin-whitening effect which comprises mulberrin in a tyrosinase-inhibiting effective amount.
2. A cosmetic product having a skin-whitening effect according to claim 1, wherein mulberrin is present in an amount of from about 0.00001% to about 5% (w/w) of the dry weight of the cosmetic product.
3. A cosmetic product having a skin-whitening effect according to claim 1, wherein mulberrin is present in an amount of from about 0.001% to about 1% (w/w) of the dry weight of the cosmetic product.
4. A cosmetic product having a skin-whitening effect according to claim 1, wherein said mulberrin is obtained by concentrating a Ramulus mori extract, which has been obtained by conventional extraction thereof with water or a mixed solvent of organic solvents to dryness;  
  
suspending the concentrate in purified water;  
  
sequentially extracting the suspension with chloroform, ethyl acetate and butanol to give fractions; and  
  
separating the fractions by analytical chromatography.
5. A cosmetic product having skin-whitening effect according to claim 1, wherein the product is in the form of skin softener, astringent, nutrient emulsion (milk lotion), nutrient cream, massage cream, essence, or facial pack.

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- ☐ 21. 5250652. 30 Jul 92; 05 Oct 93. High loading water-dispersible UVA and/or UVB light-absorbing copolymer. Langer; Matthew E., et al. 528/125; 528/128 528/176 528/183 528/185 528/189 528/192 528/193 528/194 528/220 528/272 528/288 528/292 528/302 528/303 528/304 528/305 528/308 528/308.6 528/332. C08G014/00.
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- ☐ 22. 5243021. 23 Apr 92; 07 Sep 93. Water-dispersible copolymer containing UVA and UVB light-absorbing monomers. Langer; Matthew E., et al. 528/272; 528/300 528/301 528/302 528/304 528/305 528/308 528/308.6 528/332 528/335. C08G063/20.
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- ☐ 23. 5229104. 29 Apr 91; 20 Jul 93. Artificial tanning compositions containing positively charged paucilamellar vesicles. Sottery; John P., et al. 424/59; 424/195.18 424/450 424/60 424/63 424/757 514/167 514/251 514/458 514/474 514/725 514/847 514/938. A61K007/42 A61K007/44 A61K007/48 A61K009/10.
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- ☐ 24. 4650672. 30 Aug 83; 17 Mar 87. Multi-colored pressed cosmetic powder and method of preparing same. Yagita; Yoshiaki, et al. 424/69; 424/63 514/844. A61K007/035 A61K007/021.
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- ☐ 25. 4339540. 05 Jun 81; 13 Jul 82. Inorganic gels and ceramic papers, films, fibers, boards, and coating made therefrom. Beall; George H., et al. 501/3; 106/DIG.3 156/291 156/74 156/84 501/36 501/4. C03C003/22.
- 
- ☐ 26. US 20020141955 A1. New composition for topical use e.g. a cream, having melanin synthesis-inhibitory activity, comprises carrier, skin whitening agent, sodium magnesium silicate present in amount effective to reduce decomposition of composition. HARRIS, R E, et al. A61K007/135 A61K007/35 A61K033/12 A61K035/78.
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Terms	Documents
L2 and (skin white\$ or free radical\$ or chelat\$ or scavenger\$ or tyrosinase\$ or inhibitor\$)	26

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## WEST Search History

DATE: Thursday, June 26, 2003

**Set Name Query**

side by side

**Hit Count Set Name**

result set

*DB=USPT,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ*

L4	l3 and decomposition	5	L4
L3	L2 and (skin white\$ or free radical\$ or chelat\$ or scavenger\$ or tyrosinase\$ or inhibitor\$)	26	L3
L2	L1 and cosmetic\$	85	L2
L1	sodium magnesium silicate or namgsio3	191	L1

END OF SEARCH HISTORY



## WEST Search History

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L4	l3 and decomposition	5	L4
L3	L2 and (skin white\$ or free radical\$ or chelat\$ or scavenger\$ or tyrosinase\$ or inhibitor\$)	26	L3
L2	L1 and cosmetic\$	85	L2
L1	sodium magnesium silicate or namgsio3	191	L1

END OF SEARCH HISTORY

Naturals NEW INGREDIENTS.

WC 4831

\*FULL TEXT IS AVAILABLE IN THE ALL FORMAT\*

ICL \*ADV Advertising, Marketing and Public Relations; BUSN Any type of  
business; CHEM Chemicals, Plastics and Rubber; CONT Containers and  
Packaging; DRUG Pharmaceuticals and **Cosmetics**

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L5 ANSWER 29 OF 68 USPATFULL  
AN 2002:258388 USPATFULL  
TI Method for slowing the decomposition of a cosmetic  
composition  
INCL INCLM: 424/062.000  
INCLS: 424/732.000; 424/735.000; 424/736.000; 424/757.000; 424/758.000;  
424/683.000  
NCL NCLM: 424/062.000  
NCLS: 424/732.000; 424/735.000; 424/736.000; 424/757.000; 424/758.000;  
424/683.000

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ICS: A61K033-12; A61K007-135; A61K007-035

GI	SECTION	PAGES	FORMAT	SIZE
	FRONT PAGE	1	PAGE.FP	26K
	DESCRIPTION	2-4	PAGE.DESC	306K
	CLAIMS	4-5	PAGE.CLM	106K
	COMPLETE	1-5	PAGE.ALL	354K

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